



AIRS Processing at the GES DISC

Mike Theobald



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- AIRS Evolution at the GES DISC
- AIRS Near-Real-Time Processing at GES DISC



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AIRS Evolution at the GES DISC: What

- What is AIRS Evolution?
 - Update of processing hardware
 - switching from SGI to linux
 - Replacement of ECS tape archives
 - moving to on-line RAID storage
 - Replacement of ECS software
 - moving to S4P-based system



AIRS Evolution at the GES DISC: Why

- Why?
 - Hardware maintenance costs
 - Processing, archive silos, archive front-ends
 - Wanted more architectural agility in order to be more responsive
 - Nearing end-of-life for ECS, both software and hardware



AIRS Evolution at the GES DISC: When

- When?
 - Already migrating L0 and ancillary data
 - Switch to Evolution system production and data access with AIRS v5
 - ECS retirement in Dec 2007



What does it mean?

- Faster reprocessing
 - Target is 10X reprocessing rate
- Easier, faster access to data
 - Direct ftp access similar to datapool
- Additional services
 - GIOVANNI, Mirador
- Data access instead of data ordering
- On-demand subsetting replaced with “on-the-fly” subsetting



AIRS Near-Real-Time Processing at GES DISC

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AIRS Near-Real-Time Processing at GES DISC

- <ftp://g0dps01u.ecs.nasa.gov/services/nrt/DATA>
- New capability for Goddard DISC
 - Receive rate-buffered data (RBD) from EDOS
 - Turn RBD data into “regular” AIRS-size L0 granules
 - Process to higher level using AIRS software
 - Software from a variety of sources: NOAA, UW, AIRS, GES DISC
- Conceptually an easy task, not so in practice



AIRS Near-Real-Time Processing at GES DISC

- Currently processing through L1B
- Most data are available within 2-3 hours of observation
- Still working through some issues
- Might be resource limited with L2
 - Need to transition to linux, but need port of NOAA software